



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

D206-642-541
Job Sheet 200931



Part No: D206-642-541

Job Qty: 1 pcs

Part Name: Repl.Skid.,High Gear,Std Wearplates Fits LH/RH, DART Tri-Bag Float Comp.



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 9/19/19

Job Tracking No:

Due Date: 10/18/19

Created By: Marie Lajeunesse

Type: Stock

Description: SIOP

Note: DWG D3274-041 REV G IPP Rev:F 08-06-02 add comment DD verified by:EC IPP Rev:G 08-10-09 revise details DD verified by:EC IPP REV:H 13.09.05 CHG004/ ECN13-634 DD VERF:JLM IPP REV:I 14.04.28 AS PER ECN14-520 DD VERF:JLM

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup Hrs	Run Hrs	Workcenter / Supplier	Lead Time	
110	Skidtubes - 1	1 pcs	10/18/19		0.00	2.17	Skidtubes - 1		
							Skidtubes - 2		
							Skidtubes - 3		
							Skidtubes - 4		
							Skidtubes - 5		
							Skidtubes - 6		
							Skidtubes - 7		
114	QC 5	1 pcs	10/18/19		0.00	0.00	QC 5 - 10		
							QC 5 - 12		
							QC 5 - 17		
							QC 5 - 18		
							QC 5 - 19		
							QC 5 - 22		
							QC 5 - 24		
							QC 5 - 3		
							QC 5 - 43		
							QC 5 - 49		
							QC 5 - 51		
							QC 5 - 58		
							QC 5 - 68		
							QC 5 - 9		
							QC 5 - 50		
116	QC 10	1 pcs	10/18/19		0.00	0.00	QC 5 - 30		
							QC 5 - 40		
							QC 5 - 61		
							QC 5 - 81		
							QC 10 - 10		
							QC 10 - 18		
							QC 10 - 24		
							QC 10 - 43		



Container No: S216542



Part: D206 - 642 - 541

Job No: 200931

Serial No/Batch: S216542

Revision: G

Inspector:

Exp Date:

Instructions: FAA STC SA00475SE 18/10/17, TC STC SH98-

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
CANADA
TEL.: 1 613 632 - 5200
Email: sales@dartaero.com
www.dartaerospace.com

DAS
SEP 24 2019 68
9-89

Plex 9/19/19 10:50 AM Dart.lajeunesse.marie

P.T.O.

120 Handfinish - 1-1 Chemical-B4B	1 pcs	10/18/19	0.00 0.68	QC 10 - 50	02
				QC 10 - 58	
				QC 10 - 9	
				Handfinish - 1 - 1 - B4B	BEB 19.10.02
				Handfinish - 1 - 2 - B4B	
				Handfinish - 1 - 3 - B4B	
				Handfinish - 1 - 4 - B4B	
				Handfinish - 1 - 5 - B4B	
				Handfinish - 1 - 6 - B4B	
				Handfinish - 1 - 7 - B4B	
				Handfinish - 1 - 8 - B4B	
				Handfinish - 1 - 9 - B4B	
				Handfinish - 1 - 10 - B4B	
				Handfinish - 1 - 11 - B4B	
				Handfinish - 1 - 12 - B4B	
				Handfinish - 1 - 13 - B4B	
				Handfinish - 1 - 14 - B4B	
				Handfinish - 1 - 15 - B4B	
				Handfinish - 1 - 16 - B4B	
				Handfinish - 1 - 17 - B4B	
				Handfinish - 1 - 18 - B4B	
				Handfinish - 1 - 19 - B4B	
				Handfinish - 1 - 20 - B4B	
				Handfinish - 1 - 21 - B4B	
				Handfinish - 1 - 22 - B4B	
130 QC 7	1 pcs	10/18/19	0.00 0.00	QC 7 - 10	
				QC 7 - 13	
				QC 7 - 14	
				QC 7 - 15	
				QC 7 - 17	
				QC 7 - 18	
				QC 7 - 19	
				QC 7 - 2	
				QC 7 - 28	
				QC 7 - 3	
				QC 7 - 30	
				QC 7 - 34	
				QC 7 - 36	
				QC 7 - 37	
				QC 7 - 41	
				QC 7 - 47	

					QC 7 - 48	
					QC 7 - 51	
					QC 7 - 58	
					QC 7 - 59	
					QC 7 - 60	MG TF
					QC 7 - 9	
					QC 7 - 68	
					QC 7 - 50	
					QC 7 - 67	
					QC 7 - 40	
					QC 7 - 24	
					QC 7 - 43	
					QC 7 - 61	
					QC 7 - 81	
					QC 7 - 76	
150 Skidtubes - 2 - B4B	1 pcs	10/18/19	0.00 2.08	Skidtubes - 1 - B4B		
				Skidtubes - 2 - B4B		
				Skidtubes - 3 - B4B		
				Skidtubes - 4 - B4B	TF	
				Skidtubes - 5 - B4B		
				Skidtubes - 6 - B4B		
				Skidtubes - 7 - B4B		
160 QC 5	1 pcs	10/18/19	0.00 0.00	QC 5 - 10		
				QC 5 - 12		
				QC 5 - 17		
				QC 5 - 18	BE MGA	
				QC 5 - 19		
				QC 5 - 22		
				QC 5 - 24		
				QC 5 - 3		
				QC 5 - 43		
				QC 5 - 49		
				QC 5 - 51		
				QC 5 - 58		
				QC 5 - 68		
				QC 5 - 9		
				QC 5 - 50		
				QC 5 - 30		
				QC 5 - 40		
				QC 5 - 61		
				QC 5 - 81		
170 Skidtubes - 3 - B4B	1 pcs	10/18/19	0.00 2.17	Skidtubes - 1 - B4B		
				Skidtubes - 2 - B4B		
				Skidtubes - 3 - B4B	MGA	
				Skidtubes - 4 - B4B		
				Skidtubes - 5 - B4B		
				Skidtubes - 6 - B4B		
				Skidtubes - 7 - B4B		
180 QC 5	1 pcs	10/18/19	0.00 0.00	QC 5 - 10		
				QC 5 - 12		
				QC 5 - 17		
				QC 5 - 18	MG	
				QC 5 - 19		
				QC 5 - 22		
				QC 5 - 24		
				QC 5 - 3		
				QC 5 - 43		
				QC 5 - 49		
				QC 5 - 51		

Plex 9/19/19 10:50 AM Dart.lajeunesse.marie

					QC 5 - 58	
					QC 5 - 68	
					QC 5 - 9	
					QC 5 - 50	
					QC 5 - 30	
					QC 5 - 40	
					QC 5 - 61	
					QC 5 - 81	
190 Skid tubes - 4 - B4B	1 pcs	10/18/19	0.00 2.75		Skid tubes - 1 - B4B	
					Skid tubes - 2 - B4B	
					Skid tubes - 3 - B4B	
					Skid tubes - 4 - B4B	
					Skid tubes - 5 - B4B	
					Skid tubes - 6 - B4B	
					Skid tubes - 7 - B4B	
200 QC 5	1 pcs	10/18/19	0.00 0.00		QC 5 - 10	
					QC 5 - 12	
					QC 5 - 17	
					QC 5 - 18	
					QC 5 - 19	
					QC 5 - 22	
					QC 5 - 24	
					QC 5 - 3	
					QC 5 - 43	
					QC 5 - 49	
					QC 5 - 51	
					QC 5 - 58	
					QC 5 - 68	
					QC 5 - 9	
					QC 5 - 50	
					QC 5 - 30	
					QC 5 - 40	
					QC 5 - 61	
					QC 5 - 81	
210 QC 10	1 pcs	10/18/19	0.00 0.00		QC 10 - 10	
					QC 10 - 18	
					QC 10 - 24	
					QC 10 - 43	
					QC 10 - 50	
					QC 10 - 58	
					QC 10 - 9	
220 Handfinish - 2-1 Pressure-B4B	1 pcs	10/18/19	0.00 0.45		Handfinish - 2 - 1 - B4B	
					Handfinish - 2 - 2 - B4B	
					Handfinish - 2 - 3 - B4B	
					Handfinish - 2 - 4 - B4B	
230 Spray Paint - 2 - B4B	1 pcs	10/18/19	0.00 0.40		Spray Paint - 1 - B4B	
					Spray Paint - 2 - B4B	
					Spray Paint - 3 - B4B	
					Spray Paint - 4 - B4B	
240 QC 14	1 pcs	10/18/19	0.00 0.00		QC 14 - 15	
					QC 14 - 2	
					QC 14 - 34	
					QC 14 - 41	
					QC 14 - 51	
					QC 14 - 58	
					QC 14 - 59	

					QC 14 - 9	
					QC 14 - 68	
					QC 14 - 40	
					QC 14 - 19	
					QC 14 - 43	
					QC 14 - 24	
					QC 14 - 61	
					QC 14 - 81	
244 Handfinish - 3-1- WingWalk- B4B	1 pcs	10/18/19	0.00	0.50	Handfinish - 3 - 1 - B4B	
					Handfinish - 3 - 2 - B4B	
					Handfinish - 3 - 3 - B4B	
					Handfinish - 3 - 4 - B4B	
					Handfinish - 3 - 5 - B4B	
246 QC 3	1 pcs	10/18/19	0.00	0.00	QC 3 - 10	
					QC 3 - 13	
					QC 3 - 15	
					QC 3 - 17	
					QC 3 - 18	
					QC 3 - 2	
					QC 3 - 28	
					QC 3 - 3	
					QC 3 - 30	
					QC 3 - 34	
					QC 3 - 36	
					QC 3 - 41	
					QC 3 - 51	
					QC 3 - 58	
					QC 3 - 59	
					QC 3 - 68	
					QC 3 - 9	
					QC 3 - 40	
					QC 3 - 19	
					QC 3 - 43	
					QC 3 - 24	
					QC 3 - 61	
					QC 3 - 81	
250 Handfinish - 4-1-Assembly- B4B	1 pcs	10/18/19	0.00	0.45	Handfinish - 4 - 1 - B4B	
					Handfinish - 4 - 10 - B4B	
					Handfinish - 4 - 11 - B4B	
					Handfinish - 4 - 12 - B4B	
					Handfinish - 4 - 13 - B4B	
					Handfinish - 4 - 14 - B4B	
					Handfinish - 4 - 15 - B4B	
					Handfinish - 4 - 2 - B4B	
					Handfinish - 4 - 3 - B4B	
					Handfinish - 4 - 4 - B4B	
					Handfinish - 4 - 5 -	

Plex 9/19/19 10:50 AM Dart.lajeunesse.marie

260 QC 5	1 pcs	10/18/19	0.00 0.00	B4B	
				Handfinish - 4 - 6 - B4B	
				Handfinish - 4 - 7 - B4B	
				Handfinish - 4 - 8 - B4B	
				Handfinish - 4 - 9 - B4B	
				QC 5 - 10	
				QC 5 - 12	
				QC 5 - 17	
				QC 5 - 18	
				QC 5 - 19	
				QC 5 - 22	
				QC 5 - 24	
				QC 5 - 3	
				QC 5 - 43	
				QC 5 - 49	
				QC 5 - 51	
				QC 5 - 58	
				QC 5 - 68	
				QC 5 - 9	
				QC 5 - 50	
				QC 5 - 30	
				QC 5 - 40	
				QC 5 - 61	
				QC 5 - 81	
270 Handfinish - 4-2-Assembly-B4B	1 pcs	10/18/19	0.00 0.68	Handfinish - 4 - 1 - B4B	
				Handfinish - 4 - 10 - B4B	
				Handfinish - 4 - 11 - B4B	
				Handfinish - 4 - 12 - B4B	
				Handfinish - 4 - 13 - B4B	
				Handfinish - 4 - 14 - B4B	
				Handfinish - 4 - 15 - B4B	
				Handfinish - 4 - 2 - B4B	
				Handfinish - 4 - 3 - B4B	
				Handfinish - 4 - 4 - B4B	
				Handfinish - 4 - 5 - B4B	
				Handfinish - 4 - 6 - B4B	
				Handfinish - 4 - 7 - B4B	
				Handfinish - 4 - 8 - B4B	
				Handfinish - 4 - 9 - B4B	
280 QC 5	1 pcs	10/18/19	0.00 0.00	QC 5 - 10	
				QC 5 - 12	
				QC 5 - 17	
				QC 5 - 18	
				QC 5 - 19	

				QC 5 - 22	
				QC 5 - 24	
				QC 5 - 3	
				QC 5 - 43	
				QC 5 - 49	
				QC 5 - 51	
				QC 5 - 58	
				QC 5 - 68	
				QC 5 - 9	
				QC 5 - 50	
				QC 5 - 30	
				QC 5 - 40	
				QC 5 - 61	
				QC 5 - 81	
290	Packaging 3-1 - Stock - B4B	1 pcs	10/18/19	0.00 0.00	Packaging 3 - 1 - B4B
					Packaging 3 - 2 - B4B
					Packaging 3 - 3 - B4B
					Packaging 3 - 4 - B4B
					Packaging 3 - 5 - B4B
					Packaging 3 - 6 - B4B
					Packaging 3 - 7 - B4B
					Packaging 3 - 8 - B4B
					Packaging 3 - 9 - B4B
					Packaging 3 - 10 - B4B
					Packaging 3 - 11 - B4B
					Packaging 3 - 12 - B4B
					Packaging 3 - 13 - B4B
					Packaging 3 - 14 - B4B
					Packaging 3 - 15 - B4B
					Packaging 3 - 16 - B4B
					Packaging 3 - 17 - B4B
					Packaging 3 - 18 - B4B
					Packaging 3 - 19 - B4B
					Packaging 3 - 20 - B4B
					Packaging 3 - 21 - B4B
					Packaging 3 - 22 - B4B
					Packaging 3 - 23 - B4B
					Packaging 3 - 24 - B4B
					Packaging 3 - 25 - B4B
					Packaging 3 - 26 - B4B
					Packaging 3 - 27 - B4B
					Packaging 3 - 28 - B4B
					Packaging 3 - 29 - B4B
					Packaging 3 - 30 - B4B
					Packaging 3 - 31 - B4B
					Packaging 3 - 32 - B4B
					Packaging 3 - 33 - B4B
					Packaging 3 - 34 - B4B
					Packaging 3 - 35 - B4B
					Packaging 3 - 36 - B4B
295	DC - 1 - B4B	1 pcs	10/18/19	0.00 0.00	DC - 1 - B4B
					DC - 2 - B4B
300	QC 21 - FG	1 pcs	10/18/19	0.00 0.00	QC 21 - FG - 21
					QC 21 - FG - 70
					QC 21 - FG - 53

Part Op 110 - (Skid tubes) ****VERIFY AND INSPECT THE MATERIAL PRIOR TO USE**** 1- remove fwd indexing ridge as per Descriptions: dwg D3274. Prepare for welding 2- weld fwd cap as per dwg D3274 and QSI004 AR Aluminum Rod
 Batch: 138989/139011 3- grind fwd cap weld on top surface only 4- Cut AFT end of tube at 170.9" as per dwg D3274 and deburr end/ 5-Drill Aft cap pilot hole using DT8025 6 -Cleco DT8025 in position and install pilot hole drill Jig DT8742A,B,C,D and DT8742. Drill 3/16" pilot holes as per Dwg D3274 7 -Remove inner indexing ridge on aft end of

Sikaflex
5200625
exp 07, 25, 20

- skidtube as per Dwg D3274 scribe batch # 8 -Open aft end cap holes to Ø0.208" as per Dwg D3274. Deburr aft end.
- 114 - (QC5- Inspect part completeness to step on W/O)
- 116 - (QC10- Inspect visual per QSI004- ground welds)
- 120 - (Chemical Conversion Coat per QSI005 4.1)
- 130 - (QC7-Inspect Chemical Conversion Coat)
- 150 - (Skidtubes) 1-Open Ø0.313" and 0.375" crossbolt spacer holes as per Dwg D3274 2-Deburr crossbolt spacer holes as per Dwg D3274 and blow out chips from inside the tube 3-Bond web in place as per Dwg D3274 & QSI 015. (Adhere for 12 hours)
- 160 - (QC5- Inspect part completeness to step on W/O)
- 170 - (Skidtubes) 1-Bend AFT end of tube using bend prog. D3274 AFT as per dwg D3274. Install drop pins in crossbolt spacer holes to maintain web position. 2- DRILL PILOT HOLES FOR WEARPLATES USING D3274-1T2 OPEN HOLES TO .297" . Deburr 3-DRILL TOE PIN HOLE .640" DIA AS PER DWG USING DT8935 FWD END OF TUBE DEBURR INSIDE OF HOLE AS NECESSARY (DO NOT ENLARGE HOLES) REMOVE ANY FOREIGN OBJECTS INSIDE OF TUBES 4- Countersink crossbolt spacer holes as per Dwg D3274 5- prepare for welding
- 180 - (QC5- Inspect part completeness to step on W/O)
- 190 - (Skidtubes) 1-Insert D2649 & D3275-1 crossbolt spacers. Weld as per QSI 004 and Dwg D3274. Remember to back drill each hole before welding the other side. Use aluminum rod 3-Grind cross bolt welds flush as per Dwg D3274. ****INSPECT FOR PIN HOLES IN WELD**** 4-Counterbore 5/16" x 0.750" deep as per Dwg D3274 and deburr.
- 200 - (QC5- Inspect part completeness to step on W/O)
- 210 - (QC10- Inspect visual per QSI004- ground welds)
- 220 - (Pressure Wash per QSI005 4.3/ Clean and remove all markings) Re-alodine tube as per QSI 005 section 4.1.2.1 do not acid etch
- 230 - (Spray Paint / NDT Room) Make sure Nut Plate Thread is protected using paint screw,. 1- PRIME AS PER DWG AND QSI 005 4.2 PRIMER PRC DESOTO 515X349 BATCH: _____ 2- PAINT WHITE AS PER DWG AND QSI 005 4.2 PAINT BATCH: _____
- 240 - (QC14- Inspect Spray Paint)
- 244 - (Wing Walk as per dwg QSI005 4.4 Batch _____)
- 246 - (QC3- Inspect Part Finish)
- 250 - (Assemble as per dwg) 1-Install Nut Plate as per Dwg D3274. Apply LPS-PROCYON to Nut Plate and rivets.
- 260 - (QC5- Inspect part completeness to step on W/O) Inspect Nut Plate & Inserts
- 270 - (Assemble as per dwg) 1-Install wearpads as per Dwg D3274. 2-Install ring as per Dwg D3274 3-Inspect for foreign objects as per QSI 024 4-Install Aft Cap and seal with Sikaflex. Clean excess adhesive.
- 280 - (QC5- Inspect part completeness to step on W/O)
- 290 - (Identify as per dwg & Stock Location: _____) Location : FG073
- 295 - (Document Control) Photocopy bluefile & type labels per PPP D206-642- 541 CHG005
- 300 - (QC21- Final Inspection - Work Order Release) 4-Counterbore 5/16" x 0.750" deep as per Dwg D3274 using DT10280 and deburr.

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
D3274-041BENT	Skidtube Assembly 206	1 pcs (1 ea)	110-Skidtubes - 1	5189763
D3285-1	Cap	1 pcs (1 ea)	110-Skidtubes - 1	5043738
D3282-041	Float Web (206L/407)	1 pcs (1 ea)	150-Skidtubes - 2 - B4B	519355
D2649	Cross Bolt Spacer	12 pcs (12 ea)	190-Skidtubes - 4 - B4B	
D3275-1	Cross Bolt Spacer	12 pcs (12 ea)	190-Skidtubes - 4 - B4B	
ALS4-1032-130	Rivnut	78 Ea (78 ea)	250-Handfinish - 4-1-Assembly-B4B	
CCR264SS3-3	Cherry Rivet	2 Ea (2 ea)	250-Handfinish - 4-1-Assembly-B4B	
CR3212-4-03	Cherry Rivet	2 Ea (2 ea)	250-Handfinish - 4-1-Assembly-B4B	
D3415-041	Nut Plate	1 pcs (1 ea)	250-Handfinish - 4-1-Assembly-B4B	
AN3C4A	Bolt	80 Ea (80 ea)	270-Handfinish - 4-2-Assembly-B4B	
AN4C5A	Bolt	1 Ea (1 ea)	270-Handfinish - 4-2-Assembly-B4B	
D2646	Aft Cap	1 pcs (1 ea)	270-Handfinish - 4-2-Assembly-B4B	
D3413-1	O-Ring	1 pcs (1 ea)	270-Handfinish - 4-2-Assembly-B4B	
D3537-1	Wearpad	9 pcs (9 ea)	270-Handfinish - 4-2-Assembly-B4B	
D3537-3	Wearpad	1 pcs (1 ea)	270-Handfinish - 4-2-Assembly-B4B	
D3672-1	Washer, Phenolic	2 pcs (2 ea)	270-Handfinish - 4-2-Assembly-B4B	
D4956-15	Wearplate Fwd	1 pcs (1 ea)	270-Handfinish - 4-2-Assembly-B4B	
D4956-23	Wearplate Center Fwd	1 pcs (1 ea)	270-Handfinish - 4-2-Assembly-B4B	
D4956-35	Wearplate Aft	1 pcs (1 ea)	270-Handfinish - 4-2-Assembly-B4B	
D4956-39	Wearplate Center Aft	1 pcs (1 ea)	270-Handfinish - 4-2-Assembly-B4B	
NAS1149C0332R	Washer (AN960C10L)	80 Ea (80 ea)	270-Handfinish - 4-2-Assembly-B4B	
NAS1149C0463R	Washer (AN960C416)	1 Ea (1 ea)	270-Handfinish - 4-2-Assembly-B4B	

Job Allocations				
Operation	Component Part	Required	Inventory	Allocated
110-Skidtubes - 1	D3274-041BENT	1	5	0
	D3285-1	1	7	0
150-Skidtubes - 2 - B4B	D3282-041	1	3	0
190-Skidtubes - 4 - B4B	D2649	12	83	0
	D3275-1	12	196	0
250-Handfinish - 4-1-Assembly-B4B	ALS4-1032-130	78	5,946	0
	CCR264SS3-3	2	55	0
	CR3212-4-03	2	38	0
	D3415-041	1	1	0
270-Handfinish - 4-2-Assembly-B4B	AN3C4A	80	584	0
	AN4C5A	1	70	0
	D2646	1	58	0
	D3413-1	1	19	0
	D3537-1	9	144	0
	D3537-3	1	10	0
	D3672-1	2	1,439	0
	D4956-15	1	7	0
	D4956-23	1	16	0
	D4956-35	1	21	0
	D4956-39	1	9	0
	NAS1149C0332R	80	2,920	0
	NAS1149C0463R	1	205	0
Part Specifications				
Specifications could not be found.				

Plex 9/19/19 10:50 AM Dart.lajeunesse.marie

Qty -041	Qty -043	Qty -045	Part Number	Description
X			D3274-041	SKIDTUBE ASSEMBLY
	X		D3274-043	SKIDTUBE ASSEMBLY
		X	D3274-045	SKIDTUBE ASSEMBLY (FOR PHI)
1	1	1	D2600-1-240	EXTRUSION
1	1	1	D2646	AFT CAP
12	12	12	D2649	CROSS BOLT SPACER
12	37	12	D3275-1	CROSS BOLT SPACER
1	1	1	D3282-041	FLOAT WEB
1	1	1	D3285-1	CAP
1	1	1	D3413-1	RING
1	1	1	D3415-041	NUT PLATE
9	9	9	D3537-1	WEARPAD
1	1	1	D3537-11	WEARPAD
1	1	1	D3537-3	WEARPAD
2	2	2	D3537-8	WEARPAD
1	1	1	D4956-15	WEARSHOE
1	1	1	D4956-23	WEARSHOE
1	1	1	D4956-35	WEARSHOE
1	1	1	D4956-39	WEARSHOE
78	78	40	ALS7-1032-130	INSERT (or AKS4-1032-130, ALS4-1032-130, AELS-1032-130)
80	80	42	AN3C4A	BOLT
1	1	1	AN4CSA	BOLT
1	1	1	NAS1149C0463R	WASHER (AN980C416)
80	80	42	NAS1149C0332R	WASHER (AN980C10L)
2	2	2	CCR264SS3-3	RIVET
2	2	2	CR3212-4-03	RIVET
		1	MS27039C4-06	SCREW

GENERAL NOTES:

1. MATERIAL: N/A
2. FINISH:

ON -041-043: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1 PRIOR TO INSTALLING D3282-041 WEB PRIME (REF. 4.2.1.3.3) OUTSIDE ONLY AND PAINT WHITE PER DART QSI 005 4.2 BLACK ANTI-SKID PAINT AS INDICATED TO 0.5" ABOVE LOCATION RIDGE PER DART QSI 005 4.4

ON -045: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1 PRIOR TO INSTALLING D3282-041 WEB PRIME (REF. 4.2.1.3.3) INSIDE AND OUTSIDE PER QSI 005 4.2.1 PAINT BLACK PER QSI 005 4.2.2 USING CA8213F37038 CAMOFLAGE BLACK PER MIL-PRF-06295E TYPE I CLASS H. BLACK ANTI-SKID PAINT AS INDICATED TO 0.5" ABOVE LOCATION RIDGE PER DART QSI 005 4.4

3. TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.

4. UNITS: INCHES UNLESS OTHERWISE NOTED

5. BREAK SHARP EDGES 0.005 TO 0.010 MAX

6. IDENTIFICATION: N/A

7. WEIGHT: FOR -041-043 = 37.5 LBS

FOR -045 = 33.4 LBS

8. WELDING TO BE DONE PER DART QSI 004.

9. ALL HOLES DRILLED ON CENTERLINES.

10. DAMAGE TOLERANCE ON FWD BEND:

THERE SHOULD BE NO VISIBLE WRINKLES IN THE BEND FROM THE GROUND TO A HEIGHT OF 7 INCHES ABOVE THE GROUND. IT IS ACCEPTABLE TO POLISH OUT GOUGES UP TO 0.020" DEEP IN THE BENT PORTION OF THE TUBE. A MAXIMUM REDUCTION IN DIAMETER OF 0.150" IS ACCEPTABLE IN THE BENT PORTION OF THE TUBE.

11. BOND D3282-041 FLOAT WEB INTO D3274-1/3 OUTER TUBE WITH NON-STRUCTURAL SIKAFLEX-241/281 ADHESIVE PER DART QSI 015. ENSURE HOLES LINE-UP.

12. DRILL Ø0.297 HOLES FOR ALS7-1032-130 INSERTS USING DT3274-1T2 BEFORE FINISH. INSTALL ALS7-1032-130 INSERTS AFTER FINISH. SEAL WEARSHOE BOLTS WITH SIKAFLEX -241-291. ON -045, DO NOT DRILL HOLES OR INSTALL INSERTS FOR LONG WEARPLATES.

13. COAT ALL EXPOSED FASTENERS WITH LPS LABORATORIES "LPS PROCYON" AFTER FINAL ASSEMBLY. CLEAN EXCESS GREASE WITH WASH 'N WIPE DEGREASER.

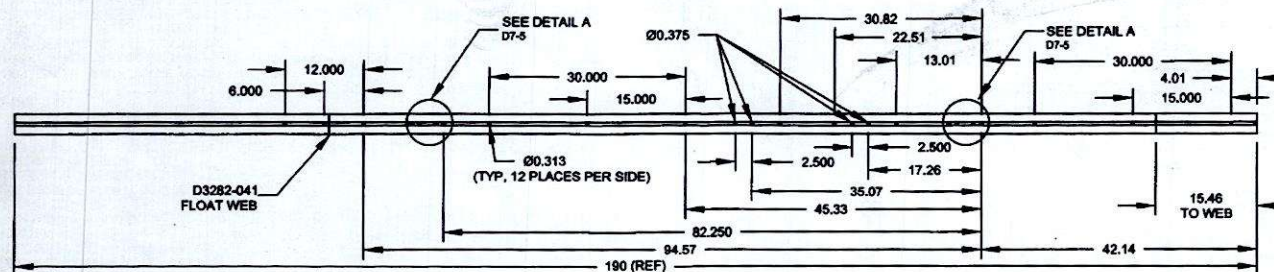
14. ON -045, APPLY COAT OF ROCKGUARD TO SKIDTUBE WHERE WEARPADS ARE INSTALLED.

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO A/E & E/IT
WITHOUT WORK
WORK ORDER
NO. 200931MLJ

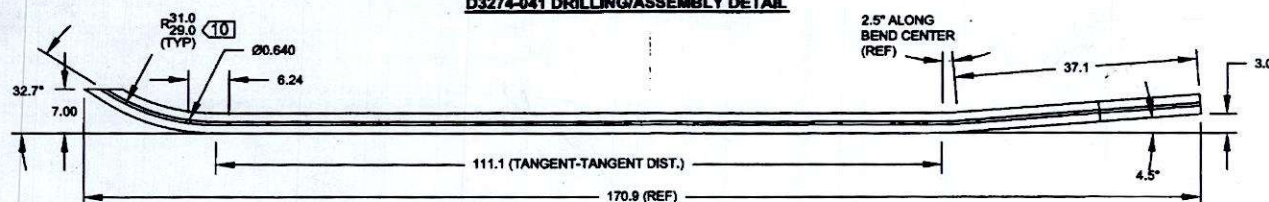
19-09-19

G	ADD -045 CONFIGURATION (FOR PHI) ZN A5-4, A5-6 REVISE NOTE 2, 7 & 12, ADD NOTE 14 (ZN A8-1)	DS	16.04.25
F	REVISE NOTE 2: ADD ANTI-SKID PAINT, REMOVE GASKETS PER IIN-D206-642 REV Q	DB	14.04.15
E	REVISE NOTE 2: FINISH NOW PRIME/PAINT WAS POWDERCOAT, REF. PAR13-256	DW	13.05.17
D	NEW INSERTS, SS WEARSHOE + GASKET	CP	06.12.19
C	ADD -043: NEW INSERTS	CP	05.03.16
B	MOVE SADDLE HOLE: 42.14 WAS 42.76	CP	04.08.09
A	NEW ISSUE	CP	04.03.15
REV.	DESCRIPTION	BY	DATE
DESIGN	CP	DART AEROSPACE USA, INC	
DRAWN	RF	EUGENE, OR	
CHECKED	AK	DRAWING NO.	REV. G
MFG. APPR.	JLM	D3274	SHEET 1 OF 6
APPROVED	DS	TITLE	SCALE
DE APPR.		SKIDTUBE ASSEMBLY	NTS
DATE	16.04.25	COPYRIGHT © 2004 BY DART AEROSPACE USA, INC THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE USA, INC.	

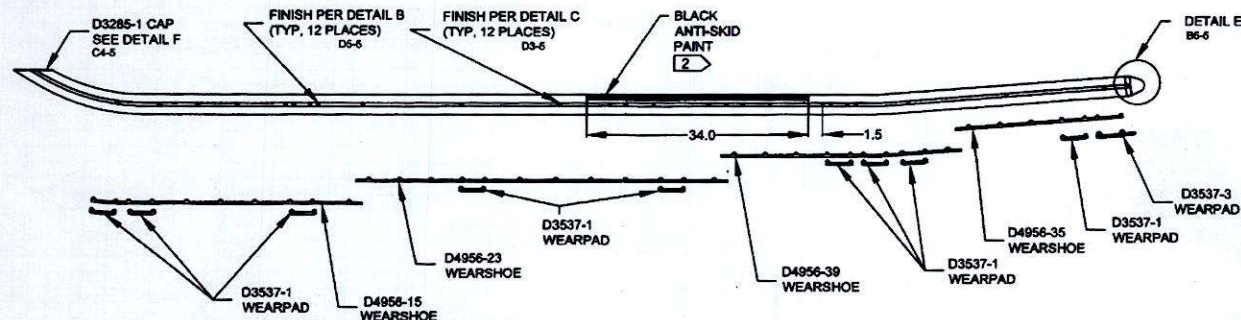
RELEASED
2016-07-26
ECN 16-616



D3274-041 DRILLING/ASSEMBLY DETAIL



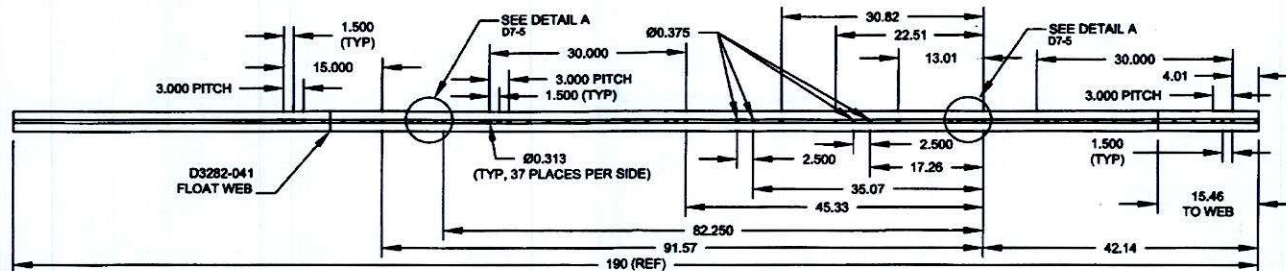
D3274-041 BEND/DRILLING DETAIL



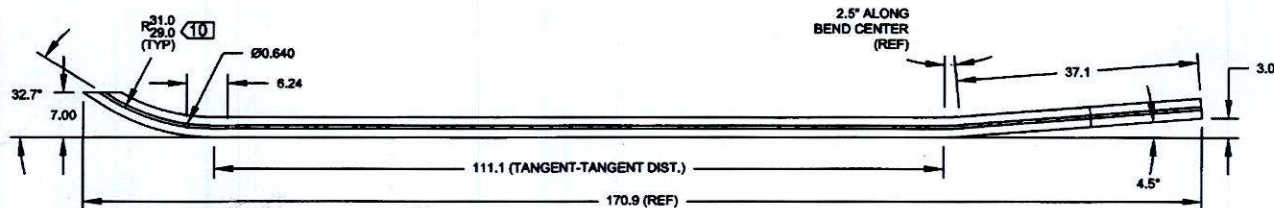
D3274-041 SKIDTUBE ASSEMBLY
(SEE DETAIL D FOR WEARSHOE INSTALLATION)

RELEASED
2016-07-26

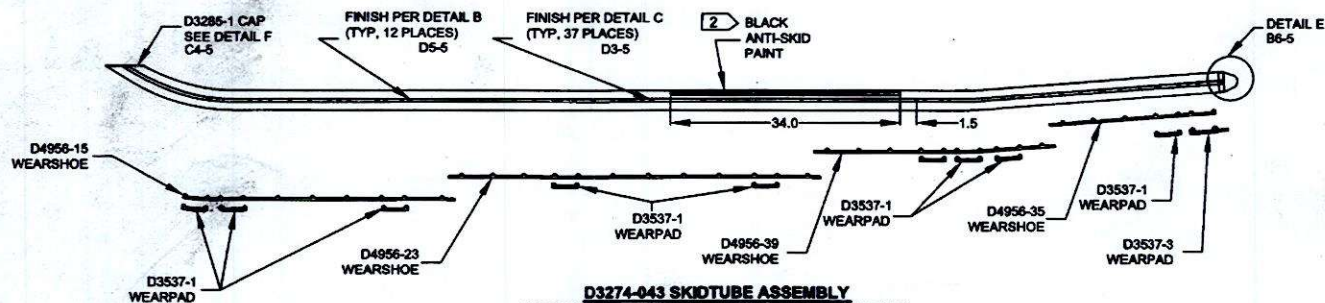
DESIGN	CP	DART AEROSPACE USA, INC	
DRAWN	RF	EUGENE, OR	
CHECKED	AK	DRAWING NO.	REV. G
MFG. APPR.	JLM	D3274	SHEET 2 OF 6
APPROVED	DS	TITLE	SCALE
DE APPR.		SKIDTUBE ASSEMBLY	NTS
DATE	16.04.25	COPYRIGHT © 2004 BY DART AEROSPACE USA, INC THIS DOCUMENT IS UNCLASSIFIED AND IS SUPPLIED ON THE UNDERSTANDING THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR REPRODUCED IN ANY FORM OR BY ANY MEANS WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE USA, INC.	



D3274-043 DRILLING/ASSEMBLY DETAIL



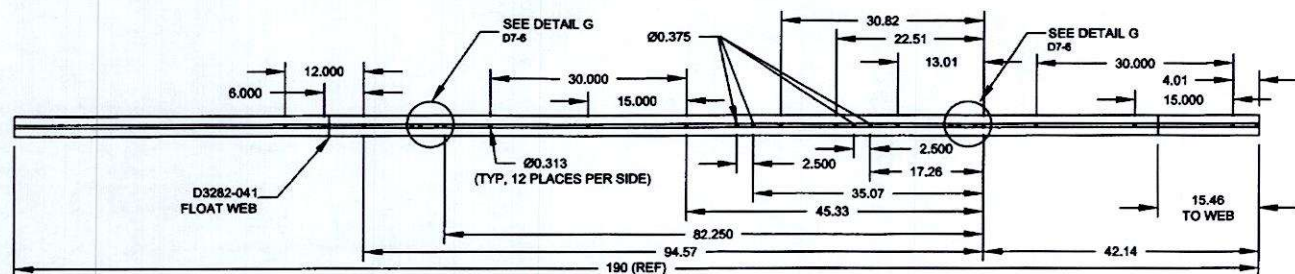
D3274-043 BEND/DRILLING DETAIL



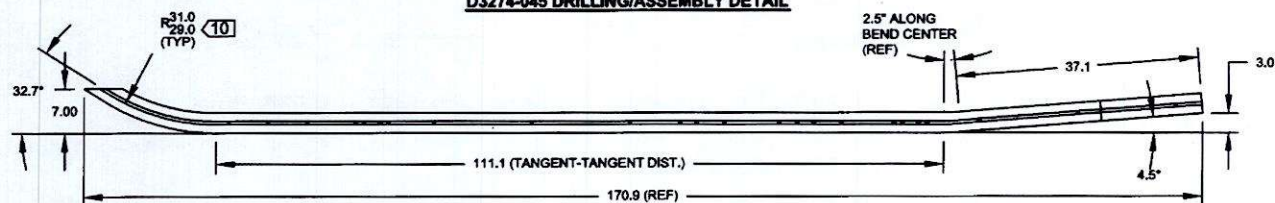
**D3274-043 SKIDTUBE ASSEMBLY
(SEE DETAIL D FOR WEARSHOE INSTALLATION)**

RELEASE
2016-07-26

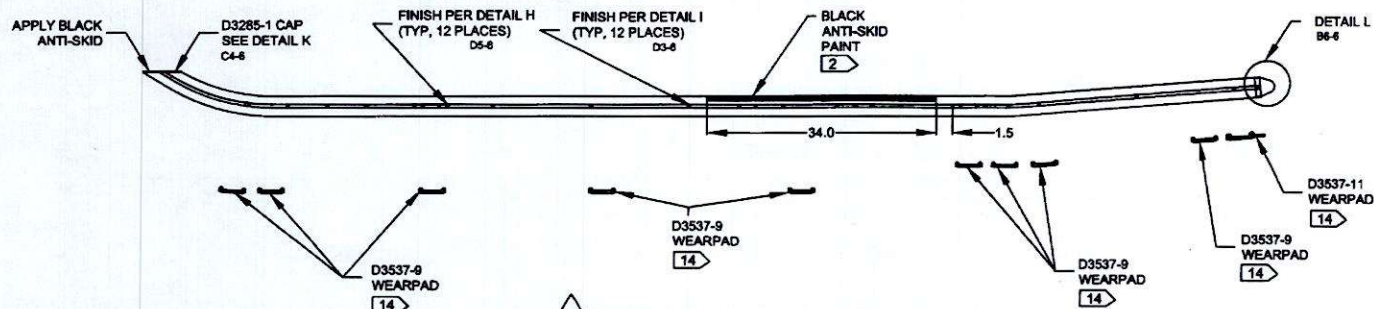
DESIGN	CP	DART AEROSPACE USA, INC	
DRAWN	RF	EUGENE, OR	
CHECKED	AK	DRAWING NO.	REV. G
MFG. APPR.	JLM	D3274	SHEET 3 OF 6
APPROVED	DS	TITLE	SCALE
DE APPR.	AS	SKIDTUBE ASSEMBLY	NTS
DATE	16.04.25	COPYRIGHT © 2004 BY DART AEROSPACE USA, INC THIS DOCUMENT IS UNCLASSIFIED AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE USA, INC.	



D3274-045 DRILLING/ASSEMBLY DETAIL



D3274-045 BEND/DRILLING DETAIL

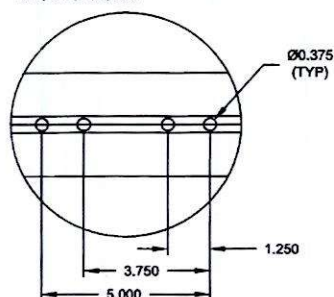


D3274-045 SKIDTUBE ASSEMBLY
(SEE DETAIL J FOR WEARSHOE INSTALLATION)

RELEASED
2016-07-26

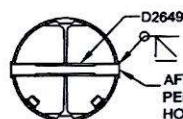
DESIGN	CP	DART AEROSPACE USA, INC	
DRAWN	RF	EUGENE, OR	
CHECKED	AK	DRAWING NO.	REV. G
MFG. APPR.	JLM	D3274	SHEET 4 OF 6
APPROVED	DS	TITLE	SCALE
DE APPR.		SKIDTUBE ASSEMBLY	NTS
DATE	16.04.25	COPYRIGHT © 2004 BY DART AEROSPACE USA, INC THIS DOCUMENT IS UNCLASSIFIED AND IS AVAILABLE TO THE PUBLIC. IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE USA, INC.	

DETAIL A: DRILL DETAIL
D6-2, D3-2, D5-3, D3-3



DETAIL B
B4-2, B5-3

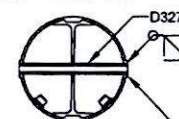
FOR Ø0.375 HOLES ONLY



- AFTER DRILLING AND BENDING ASSEMBLY
PERFORM THE FOLLOWING FOR Ø0.375
HOLES ONLY:
1. CHAMFER HOLE 0.030x45°
 2. INSERT D2649 SPACER
 3. WELD INTO PLACE AND GRIND FLUSH
 4. C'BORE TO Ø0.313x0.75 DEEP

DETAIL C
B5-2, B4-3

FOR Ø0.313 HOLES ONLY



CHAMFER 0.030x45°
(TYP)

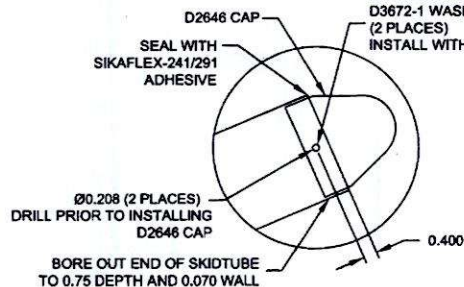
DETAIL D
A4-2, A4-3



- ALS7-1032-130 INSERT (1)
AN3C4A BOLT (1)
NAS1149C0332R WASHER (1)
(78 PLACES)

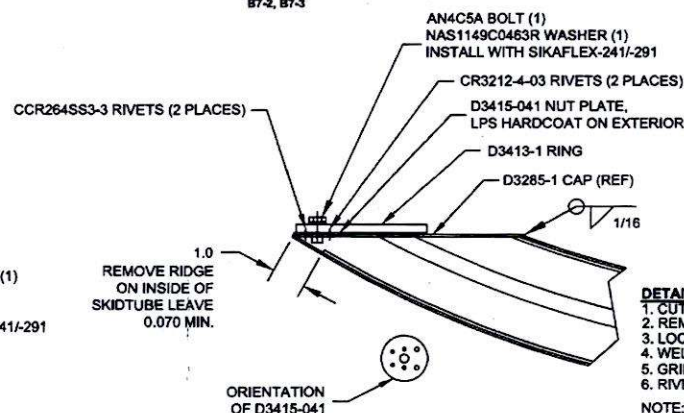
WEARSHOE/WEARPAD (REF)

DETAIL E
B2-2, B2-3



- AN3C4A BOLT (1)
NAS1149C0332R WASHER (1)
D3672-1 WASHER (1)
(2 PLACES)
INSTALL WITH SIKAFLEX-241/291

DETAIL F: END FINISHING DETAIL
B7-2, B7-3



DETAIL F NOTES

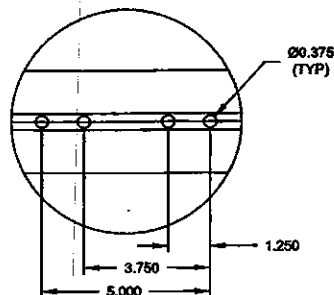
1. CUT TUBE LEVEL
 2. REMOVE RIDGE ON FWD SIDE
 3. LOCATE D3285-1 (TRIM AS NECESSARY)
 4. WELD D3285-1 IN PLACE PER DART QSI 004
 5. GRIND FLUSH
 6. RIVET D3415-041 NUT PLATE IN PLACE
- NOTE: MASK THREADS IN D3415-041
PRIOR TO FINISH

-041/-043 DETAILS

RELEASED
2016-07-26

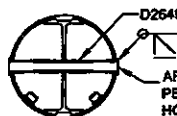
DESIGN	CP	DART AEROSPACE USA, INC	
DRAWN	RF	EUGENE, OR	
CHECKED	AK	DRAWING NO.	REV. G
MFG. APPR.	JLM	D3274	SHEET 5 OF 8
APPROVED	DS	TITLE	SCALE
DE APPR.		SKIDTUBE ASSEMBLY	NTS
DATE	16.04.25	COPYRIGHT © 2004 BY DART AEROSPACE USA, INC THIS DOCUMENT IS UNCLASSIFIED AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE USA, INC	

DETAIL G: DRILL DETAIL
D6-4, D3-4



DETAIL H
D6-4

FOR Ø0.375 HOLES ONLY



AFTER DRILLING AND BENDING ASSEMBLY
PERFORM THE FOLLOWING FOR Ø0.375
HOLES ONLY:
1. CHAMFER HOLE 0.030x45°
2. INSERT D2649 SPACER
3. WELD INTO PLACE AND GRIND FLUSH
4. C-BORE TO Ø0.313x0.75 DEEP

DETAIL I
B5-4

FOR Ø0.313 HOLES ONLY



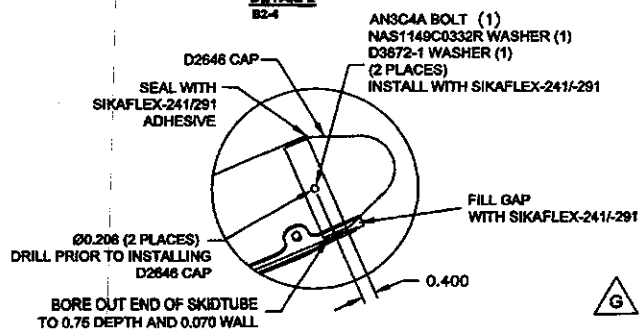
CHAMFER 0.030x45°
(TYP)

DETAIL J
A4-4

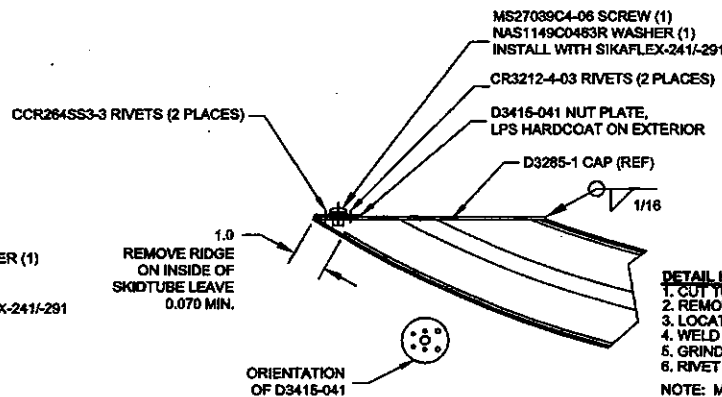


ALS7-1032-130 INSERT (1)
AN3C4A BOLT (1)
NAS1149C0332R WASHER (1)
(40 PLACES)
WEARPAD (REF)

DETAIL L
B2-4



DETAIL K: END FINISHING DETAIL
B7-4



DETAIL K NOTES

1. CUT TUBE LEVEL
 2. REMOVE RIDGE ON FWD SIDE
 3. LOCATE D3285-1 (TRIM AS NECESSARY)
 4. WELD D3285-1 IN PLACE PER DART QSI 004
 5. GRIND FLUSH
 6. RIVET D3415-041 NUT PLATE IN PLACE
- NOTE: MASK THREADS IN D3415-041
PRIOR TO FINISH



-045 DETAILS

RELEASED
2016-07-26

DESIGN	CP	DART AEROSPACE USA, INC	
DRAWN	RF	EUGENE, OR	
CHECKED	AK	DRAWING NO.	REV. G
MFG. APPR.	JLM	D3274	SHEET 6 OF 6
APPROVED	DS	TITLE	SCALE
DE APPR.		SKIDTUBE ASSEMBLY	NTS
DATE	16.04.25	COPYRIGHT © 2004 BY DART AEROSPACE USA, INC THIS DOCUMENT IS UNCLASSIFIED AND IS AVAILABLE FOR REPRODUCTION BY ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE USA, INC.	

Entered: _____ Date: _____



WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. _____

Route update only ☐

Job: <u>200931</u> Part No. <u>D206-642-541</u>		DISPOSITION Rework ☐ Scrap ☒ Use-as-is ☐		DEPARTMENT/PROCESS Skid-tube ☒ Machining ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Eng. (Non-AW) ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Engineering ☐ Water Jet ☐ Supplier ☐ Quality ☐							
Date : <u>19-11-05</u>		Sequence #: <u>170</u>		QTY Affected : <u>1</u>		MRB (QSI042) DAS 9 19-11-05 9-89					
Description Work Order Deviation				Disposition							
Aff end of tube overband By 0.400"				SCRAP							
				Completed By TW 19-11-05 Lead hand / Supervisor TW 19-11-05 QC / QA Coordinator DAS 9 19-11-05 9-89							
Root Cause Operator ☐ Manufacturing Process ☒ Equip/Tooling ☐ Handling/Preservation ☐ Material ☐ Product Improvement ☐ Process Improvement ☐ Human Factors ☐		FAULT CATEGORY <table style="width:100%; border: none;"> <tr> <td style="width:33%; vertical-align: top;"> ☐ Pressure/Forced ☐ Bending ☐ Crushing ☐ Cracks ☐ Crimp/Kink/Ripple/Wave/Twist ☐ Marks/Chatter ☐ Mislabeled </td> <td style="width:33%; vertical-align: top;"> ☐ Contamination ☐ Misaligned/off center ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Incomplete/Unclear Instructions ☐ Drill Holes ☐ Fit/Function </td> <td style="width:33%; vertical-align: top;"> ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain Direction ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set/Set-up </td> <td style="width:33%; vertical-align: top;"> ☐ Positioned Wrong ☒ Outside Tolerance ☐ Drawing ☐ Finish ☐ Part Lost/Missing ☐ Misread </td> </tr> </table>						☐ Pressure/Forced ☐ Bending ☐ Crushing ☐ Cracks ☐ Crimp/Kink/Ripple/Wave/Twist ☐ Marks/Chatter ☐ Mislabeled	☐ Contamination ☐ Misaligned/off center ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Incomplete/Unclear Instructions ☐ Drill Holes ☐ Fit/Function	☐ Power Loss/Surge ☐ Folio/Program ☐ Grain Direction ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set/Set-up	☐ Positioned Wrong ☒ Outside Tolerance ☐ Drawing ☐ Finish ☐ Part Lost/Missing ☐ Misread
☐ Pressure/Forced ☐ Bending ☐ Crushing ☐ Cracks ☐ Crimp/Kink/Ripple/Wave/Twist ☐ Marks/Chatter ☐ Mislabeled	☐ Contamination ☐ Misaligned/off center ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Incomplete/Unclear Instructions ☐ Drill Holes ☐ Fit/Function	☐ Power Loss/Surge ☐ Folio/Program ☐ Grain Direction ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set/Set-up	☐ Positioned Wrong ☒ Outside Tolerance ☐ Drawing ☐ Finish ☐ Part Lost/Missing ☐ Misread								
		Other/Details:									